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Electrophysiological and Biochemical Correlates of Nicotine Action with
Special Reference to the Central Nervous System. Grant #472R4

This continuing project is part of a long-term and broad program in neuropharmacology, aimed at the analysis of the central synaptic actions of drugs and their correlation with effects upon behavioral parameters. The central effects of nicotine are studied in comparison to and in interaction with relevant cholinergic, serotonergic and adrenergic agents in an effort to study separately its cholinomimetic and catecholamine releasing actions. A battery of behavioral and electrophysiological techniques are used but in the present series of experiments special emphasis is given to intracellular recordings in cortex and nerve. Biochemical techniques will be used to differentiate the role of various monoamines and their aldehyde metabolites on nicotine action.

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